

# Annual Meeting 2024

H2Cluster, January 30<sup>th</sup>

Statkraft



# Agenda

## Welcome

Interim Cluster Manager Daniel Ras-Vidal

## Our hydrogen projects

Ulf Eriksen, VP Hydrogen

Statkraft

## Powercell

Stig Kallestad, Business Manager, Powercell Group

## Utfordringer og gjennomslag i 2023 og viktige saker i 2024

Ingebjørg Telnes Wilhelmsen, Generalsekretær, Norsk Hydrogenforum

## National & European grant opportunities for hydrogen projects

Kenneth Junge Hermansen, CEO Norway, Nordic Innovators

## Break

Annual Meeting

## Lunch & Networking

# Rømningsplan

- Evakuering gjennom dørene bak i auditoriet
- Samlingsplass er P-plass foran hovedinngang
- Det er ikke planlagt noen brannøvelse 30.januar

## RØMNINGSPLAN / EVACUATIONPLAN

Mustad Eiendom  
Lilleakerveien 6  
PLAN 1

**Her står du**  
You are here

**Brannslange**  
Fire hose

**Brannmelder**  
Fire alarm

**Slukkeapparat**  
Fire extinguisher

**Rømningsvei**  
Emergency exit

**Trapp**  
Stairway

**Interntrepp**  
Internal stairway

**METEPlass**  
Meeting point

**ORIENTERINGSFIGUR**

### FIRE INSTRUCTIONS

MAKE YOURSELF FAMILIAR WITH THE EMERGENCY EXITS AND THE PLACEMENT OF FIRE-EQUIPMENT.  
IN CASE OF FIRE YOU MUST:

**ALERT** If you can't hear any fire alarm, alert others.  
Activate the manual fire alarm. Call the fire department - 110.

**SAVE** People at risk of fire.

**EXTINGUISH** Try to extinguish the fire with the nearest fire hose or extinguisher.

**EVACUATE** Evacuate the building, use the nearest escape route.

**HELP** Help personnel.

### BRANNINSTRUKS

GIJØR DEG KJENT MED NØDUTGANGER OG PlassERING AV BRANNSLUKKELSTYR.  
VED ETHVERT TILLOP TIL BRANN SKAL DU:

**VARSLER** Den som det ikke høres brannalarmer, varsle andre.  
Trykk på manuell brannmelder. Ring brannvesenet - 110.

**REDDER** Mennesker utstilt for brannfare.

**SLOKKER** Forsøk å slukke brannen med nærmeste slukkeutstyr.

**RØMME** Evakuer bygningen, bruk nærmeste rømningsvei.

**HJELPER** Bistå ansvarlig personale.

Revisert fra Mustad Eiendom AS  
Dato: 16.03.2021

**Fokus**  
Fokus Rømningsplan AS  
Lilleakerveien 6  
0680 Sandnessjøen

# Welcome

Interim Cluster Manager, Daniel Ras-Vidal

# It is all about you and the power of collaboration...



## Vision

World leading cluster for scaling hydrogen technology and competence

## Mission

H2Cluster accelerates innovation, value creation, export and the global energy transition

## Focus areas

- Scaling nationally
- Internationalisation / export
- Cluster development



# A summary of 2023

Interim Cluster Manager, Daniel Ras-Vidal



# We unite 60 partners...





## Connecting and facilitating value creating collaborations

**H2 Resource**

**H2 Global**

**H2 Academy  
& Insight**

**H2 Scale Up**

**H2 Meet &  
Connect**

**H2 Projects**

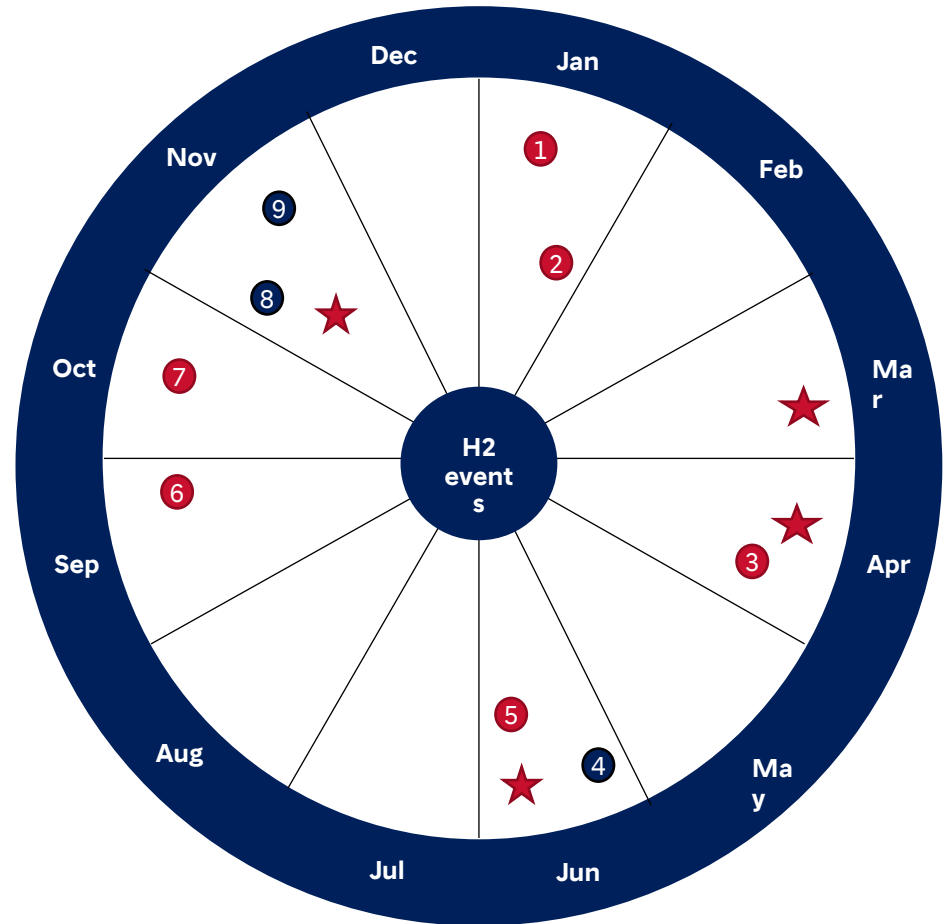


**Arena H2Cluster**  
The Norwegian Hydrogen Cluster

# HPO Events 2023

- 1 Hydrogen HPO Webinar (Jan. 18<sup>th</sup>)
- 2 Delegation to Munich (Jan. 24-25<sup>th</sup>)
- 3 Hannover Messe (Apr 17-21<sup>st</sup>)
- 4 Norwegian Hydrogen Forum Conference (Jun. 1<sup>st</sup>)
- 5 Windforce Conference (Jun 12-15<sup>th</sup>)
- 6 H2 Technology Expo (Sep. 27-28<sup>th</sup>)
- 7 2<sup>nd</sup> German Norwegian Hydrogen Forum (Oct.)
- 8 H2 Cluster – H2 Value Chain Conference (Nov.)
- 9 German Energy Solutions Initiative – Hydrogen (Nov. 7)

★ **Global Growth – Program for Norwegian companies market entry in Germany**



*Partners events in blue*

## Hydrogen Opportunities Germany

# Global Growth Programme 2023

*Norwegian Hydrogen  
Expertise to Germany*



## Milestone Summary of High Potential Opportunities (HPO) Hydrogen and Maritime Solution Germany

December 2023

### 10 participating companies

Aker Solutions	Hydro Havrand
Vysus Group	Hydepoint
Lattice	Moreld
Gen2Energy	ZEG
Technip FMC (partner and host)	Statkraft



## H2 Value Chain 2023 Norway's Leadership and Collaboration

- Keynotes from industry leaders
- Panel discussions on the future of the hydrogen economy
- Roundtable discussions with industry experts
- Hydrogen Christmas Dinner - an evening full of networking opportunities



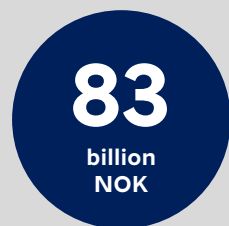
# Plans and budget 2024

Interim Cluster Manager, Daniel Ras-Vidal

# «Today's hydrogen industry expects substantial growth towards 2030»



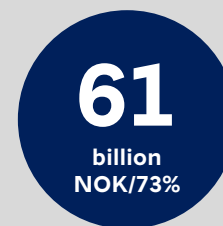
Menon Economics 2022



revenue in 2030



employment in 2030



export in 2030



**Arena H2Cluster**  
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Arena H2Cluster  
The Norwegian Hydrogen Cluster



# Team H2 Cluster



# Core activities 2024

- **H2MarketMeetUp** - Bi-weekly webinars
- **H2 Value Chain 2024**
- **HPO Germany**
  - Market visits & Trade missions
  - Industrial Hubs offering multiple business opportunities
- **Resource Groups**
  - H2Safety
  - Sustainability
  - Hydrogen in the Energy System
- **Innovation Projects**
  - Hydrogen in industrial applications
  - EU Projects
  - ?
- **H2 Scale Up program**

**H2 Market Meetup**  
OM Hydrogen Propulsion & Absolut Hydrogen  
September 7th  
08.15 - 09.00  
Arena H2Cluster

**KEYNOTE**  
Norwegian Innovation Leadership  
Anita Krohn Trasseth  
Chair, Non-Executive Director & Investor

**KEYNOTE**  
Thomas Young Hwan  
Wesling Jensen, Head of Regulatory Affairs  
Denmark & Hydrogen Nordic, WME,

**KEYNOTE**  
Insight into the global hydrogen industry  
Alma Sator  
Marketing & Company

**KEYNOTE**  
Håkon Voldal  
CEO, H2

**KEYNOTE**  
Bjørn Simonsen  
CEO, World Wide Wind

**Moderator Panel Discussion**  
Ulrik Olbjærn  
Project Director, Clean Carbon Solutions at Equator

## Energy Hub Port of Wilhelmshaven – Import Terminal



NEWS ARTICLE | 17 January 2024 | Clean Hydrogen Joint Undertaking

## Clean Hydrogen Partnership launches € 113.5 million call for projects across the whole hydrogen value chain



### WHY ATTEND THIS VISIT?

With the aim to build a hydrogen import terminal in Wilhelmshaven, the project holds the possibility for a large-scale import of green hydrogen and a vast investment volume.

The project offers a great opportunity for H2 market entry, specifically in the import, transport, and distribution value chain area of hydrogen. For instance, the terminal capacity is planned to be annually up to 20 billion m<sup>3</sup> of hydrogen. In addition, it will also include a 500 MW electrolyzer unit on the premises.

The goal of the visit is to offer Norwegian suppliers the chance to gather concrete insights on site and broaden their network of clients and partners during the B2B meetings.

### WHAT TO DO AT THIS VISIT?

During the visit, participants will attend the project premises, engage in discussions and afterwards, attended B2B meetings with potential clients and partners.

### WHAT OUTCOME TO EXPECT?

Participants will gain knowledge and understanding of the potential H2 projects, a valuable network of partners and clients, identified project opportunities as well as have the insight required to succeed in the German H2 market.

# Hydrogen in industrial applications – New project in 2024



Pioneering Sustainability



# H2 ScaleUp program

*Tailor made focus for GROWTH COMPANIES*

*Workshop modules:*

## Export Opportunities

- Expert intro
- Define potential markets
- Make connections with possible international partners/customers

## Strategic projects NO/Global

- Identify strategic projects and start process for application

## Enhance your Business Model

- Improve and iterate on your business model and grow your understanding of the market

## Individual advice

- Tailored strategic advice
- Management for hire
- Management consulting



# Steering group 2024 & Selection Committee

Election Committee Leader,  
Geir Magnar Brekke, Statkraft

# Styringskomiteen H2Cluster 2023

- Ulrik Olbjørn (leader) – Equinor
- Kathrine Ryengen – ZEG
- Sigrid Guldborg – Statkraft
- Jørn Helge Dahl – Hexagon Purus
- Tor Erik Hoftun – Teco 2030
- Andreas Ekker - Gen2Energy
- Steffen Møller-Holst – SINTEF
- Vibeke Mohn Herberg, Hydro Havrand

## Observers:

- Hanne-Mai Eriksen – Innovation Norway
- Daniel Ras-Vidal – Kjeller Innovation

# Selection Committee 2023-2024



**Vegard Frihammer**

Greenstat



**Geir Magnar Brekke**

Statkraft

Leader of the Committee



**Daniel Ras-Vidal**

Kjeller Innovasjon / H2Cluster

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- Ulrik Olbjørn (leader) – Equinor
- Andreas Ekker – Gen2Energy
- Steffen Møller-Holst – SINTEF
- Vibeke Mohn Herberg/  
Hans Eide Aarre – Hydro Havrand
- Katrine Hilmen - ABB
- Rune Hommen - Swagelok
- Marthe Therese Møller Solaas – Yara  
Clean Ammonia
- Hallvard Bruusgaard - ZEG

## Observatører:

- Hanne-Mai Eriksen – Innovation Norway
- Daniel Ras-Vidal – Kjeller Innovation



# Selection Committee 2024-2025



**Jørn Helge Dahl**

Hexagon Purus



**Sigrid Guldborg**

Statkraft



**Daniel Ras-Vidal**

Kjeller Innovasjon / H2Cluster



**Kathrine Ryengen**

ZEG Power

**THANK YOU**  
**for your time and**  
**attention**

# Lunch & Networking